

## Performance Work Statement Decontamination Analytical and Technical Services (DATS) Contract

### I. BACKGROUND

The Decontamination Analytical and Technical Services (DATS) Contract supports the United States Environmental Protection Agency's (USEPA) National Decontamination Team (NDT) based in Cincinnati, Ohio. DATS utilizes government and contractor-owned equipment and facilities in greater Cincinnati area to provide analytical, technical and information management support to the NDT in conducting Agency missions under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Superfund Amendments and Reauthorization Act (SARA), Oil Pollution Act (OPA), Resource Conservation and Recovery Act (RCRA), Toxic Substances Control Act (TSCA), Clean Water Act (CWA), Clean Air Act (CAA), National Contingency Plan (NCP), Presidential Decision Directives (PDD), the Federal Response Plan (FRP), the National Response Plan (NRP), Robert T. Stafford Natural Disaster Act and other legislative acts. NDT's services are provided in support of the Office of Solid Waste and Emergency Response (OSWER), EPA Regional On-Scene Coordinators (OSCs), Remedial Project Managers (RPMs) and other Agency groups. Technical support shall include a full-time support element in close proximity to the Cincinnati, Ohio and Erlanger, KY facilities. This contract entails site-specific work in the event of an incident of national significance as well as participation on exercises. International support for NDT may also be required should the USEPA be tasked to participate in consequence management for allies and partners outside CONUS as well as for ongoing technical research and collaboration.

The contract is divided into four requirements: Personnel, Technical Information Services, Preparedness and Response, and Safety and Quality Assurance. The contractor shall provide scientific and operational support to NDT including technical issues surrounding the decontamination of buildings, building contents (including evidence), public infrastructure (including waste/drinking water plants, chemical plants, power plants, subways, etc.), indoor environments, agriculture, and the associated environmental media (air, soil and water) in the aftermath of a Weapons of Mass Destruction (WMD) event or other catastrophic incidents of national significance. The contractor shall provide services in the following areas including but not limited to terrorist events; pre-deploying for special security events; delivering of scientific, engineering, and health and safety field support for decontamination activities at terrorist events or other large scale natural or man-made disaster events; assist in designing and managing mission-driven research and development targeted to enhance the capability to provide decontamination response services at terrorist events; disseminating new capabilities; enhancing planning and preparedness activities for terrorist events; staying informed of current technologies and methodologies for decontamination; assist in developing and conducting training and exercises related to decontamination, and working within the Incident Command System (ICS). The contractor may be required to perform any of these services during Agency related preparedness and prevention or response efforts. Under this contract, work will be issued through individual task orders.

## II. STATEMENT OF WORK

All deliverables will be approved by the Project Officer (PO) and/or Task Order Manager. The contractor shall use EPA's SCRIBE or other Agency approved environmental data management system to document all environmental sampling performed under this contract and deliver the resultant files to the PO as a project deliverable. This requirement applies to analytical data produced by in-house and by contract laboratories. Technical requirements for importing data into the SCRIBE system will be provided by NDT. The contractor shall use the EPA OSC web resource provided by NDT as an information repository for all analytical data, deliverables, and related materials. Analytical data shall be submitted in a form suitable for import into SCRIBE, all other deliverables shall be submitted in Adobe PDF format. Access to the SCRIBE system and EPA OSC web resource and training will be provided by NDT. Individual websites will be created by NDT for each task order. Text-based reports shall be maintained in a searchable, indexed database; data shall be provided in Access data tables, Excel spreadsheets, or delimited text files; and images shall be provided as .JPG files. Other standard formats may be identified as necessary in addition to the above requirements.

The contractor shall provide sufficient personnel, equipment and supplies in all categories necessary for support of NDT. All equipment must be compatible and interoperable. Equipment and supplies shall include, but are not limited to, vehicles, communication devices, information technology devices, health and safety equipment (e.g., personal protective equipment), etc.

### A. PERSONNEL

The contractor shall provide staff with a high level of technical expertise in the following disciplines:

- Clinical Microbiology and Infectious Diseases – Provide expertise in microbial pathophysiology, epidemiology, clinical recognition, differential diagnosis, infection control policies and procedures, and diagnostic testing for a wide variety of microbial agents. Strong and detailed familiarity with the current militarized agents as well as potential agents, such as SARS, Ebola, Marburg, etc. He/She should be sufficiently competent in the area of molecular genetics to appreciate the potential for the modification and selection of existing agents and the risks which that entails.
- Toxicology - Broad scientific training in the basic sciences relating to toxicology as well as specialized experience and competence in those areas which most directly impact decontamination issues.
- Operations Analysis, Planning and Policies – Broad experience in the organization of complex and multi-organizational plans and policies; knowledge of the federal agencies, including DoD, including their missions and organizations; experience with operational control, communications, logistics, and budgets. Experience in federal, state and local government coordination.
- Technical Writing – Strong technical writing skills, as well as sufficient scientific knowledge to accomplish tasks with a high degree of independence.

- Health Physics – Specialized experience in the process of decontamination and restoration. Broad background to respond to the wide variety of agents, expert knowledge in regard to the appropriate instrumentation for detection, analysis, identification of the specific isotopes involved in any and all of the exposures scenarios that may occur as a result of a terrorist attack. Strong hands-on capacity for instrumentation use as well as theoretical and general knowledge.
- Environmental Health, Sampling, and Monitoring – Strong laboratory and analytical skills in the areas of environmental testing, analysis, and interpretation. Provide both hands-on expertises, sufficient to support field testing operations; be able to adapt sample specimen extraction and processing from a variety of matrices, as well as a strong general and theoretical background. Aware of national assets for testing and have a working knowledge of the agencies and facilities involved.

## **B. TECHNICAL INFORMATION SERVICES**

The contractor shall provide technical support in the following areas:

### **1. INFORMATION MANAGEMENT**

- a. Collaborate closely with and assist EPA Office of Environmental Information (OEI), OEM, and NDT personnel in the design and construction of an information portal and in the conceptualization, design, organization, and construction of a Decontamination Portfolio (Decon Portfolio) with associated databases, specialized information, and tools. The contractor shall provide all the information and research tasks that follow, unless otherwise directed, in a form suitable for efficient, convenient, reliable, and shared electronic access and use through the portal and Decon Portfolio. The Decon Portfolio will be a national response resource and will represent a capstone information management objective of this contract.
- b. Collect, evaluate, compile, organize, and verify information into a form suitable for shared access by EPA OEM and NDT members both for decontamination planning purposes and crisis management use.
- c. Perform technical literature searches including technical evaluations of new and existing methodologies, techniques, tactics, and procedures (TTPs), related to decontamination science and operations.
- d. Collect, evaluate, compile, and organize specific information regarding threat agents of concern to EPA according to appropriate categorical venues including, but not limited to, risk assessment, health and safety, sampling, decontamination strategies, and disposal.

- e. Arrange and implement inter-library loans.
- f. Collect, organize and distribute technical material in the form of reports, photos, slides, videotapes, audiotapes, CD-ROMs, CDs, DVDs, microfiche and other data storage formats for research and evaluation purposes.
- g. Evaluate IT and communications capabilities within EPA for suitability for expanded and specialized NDT and OEM Weapons of Mass Destruction/Chemical Biological Radiological Nuclear Explosive (WMD/CBRNE) and other crisis responses, as well as inter-agency coordination and make recommendations for improvement.
- h. Make recommendations to EPA OEM/NDT and OEI regarding the incorporation of collaborative planning tools both within the agency as well as for inter-agency use.
- i. Maintain and operate a multi-node Local Access Network (LAN) for contractor administrative and technical use.
- j. Ensure that EPA OEM/NDT IT tools include a single Current Operational Picture web page which will serve as the agency focal point for all crisis management. This web site should have robust real-time updating capabilities by field personnel from various EPA components and other government agencies. The tool should also act as an IT platform for displaying all related information in a fully integrated manner.

## 2. TECHNICAL MEDIA

- a. Prepare technical bulletins, reports and presentation materials.
- b. Edit technical bulletins, technical reports and other technical documents (e.g., technical papers and site-related deliverables).
- c. Provide photo documentation of field operations including multi-format location and studio photography, processing and the production of color and/or black and white prints, slides, copy negatives and enlargements.
- d. Operate multi-media presentation equipment including slide projectors, video camera recorders, satellite downlinks and other media presentation equipment.
- e. Provide video documentation of field operations including multi-format location and studio videography, concept and story board

development, script preparation, editing, post-production work, and duplication of completed products.

f. Provide real-time videography for common access in support of event coordination and management.

### 3. TECHNICAL ANALYSIS SUPPORT

a. Provide technical data management tools to support field activities.

b. Provide technical data analysis including statistical analysis in support of field projects, reports, and technical assessments.

c. Provide technical drafting for field site plans, computer aided design drawing and mapping, geographical information system data, etc. (utilizing both EPA standard software such as ARC Info/ARC View and task developed software).

d. Develop evaluation criteria for technical review of research plans and proposals.

e. Review and evaluate technical research proposals in order to determine the adequacy of the experimental design to provide accurate and statistically reliable validation of the test method.

f. Develop criteria for the evaluation of decontamination methods.

g. Assess needs, identify gaps, and make recommendations on the existing TTPs for decontamination.

## C. PREPAREDNESS AND RESPONSE SERVICES

The contractor shall provide support in the following technical support activities:

### 1. PREPAREDNESS ACTIVITIES

a. Develop boilerplate decontamination plans (Concepts of Decontamination Operations including necessary TTPs) for a variety of agents and scenarios ranging from small to large area exposures in a variety of environments. The boilerplate plans should include development of necessary management tools, quality control processes, and documentation.

- b. Identify and evaluate existing and alternative decontamination technologies, techniques, tactics, and procedures for chemical, biological and radiological contaminants.
- c. Develop and implement methods to monitor the progress of decontamination and disposal activities.
- d. Identify high risk agents and compile in a prioritized list.
- e. Develop guidelines for safe and effective analysis, treatment, collection, neutralization, and disposal of decontaminated materials and decontamination waste by-products.
- f. Develop, enhance, and support guidance and training for sampling kits, devices, or other tools used to identify, measure, or neutralize, agents of concern in all media.
- g. Provide technical support and training on decontamination of equipment, buildings, outdoor areas and agricultural sites.
- h. Design bench scale decontamination testing methods in cooperation with Office of Research and Development (ORD) and National Homeland Security Research Center (NHSRC).
- i. Design and implement technical options for conducting and evaluating risk assessment, environmental assessment and multi-media extent of contamination assessment to include environmental impact and bioavailability of contaminants.
- j. Determine performance efficiencies/efficacies for treatment technologies in accordance with EPA Treatability Study Guidelines to include estimation of final achievable concentrations and percent removals given varying initial concentrations.
- k. Prepare and ship dangerous goods packages containing samples or swipes with small amounts of CBRNE materials.
- l. Research potential partnerships and share information with federal, state and local organizations. This includes developing active liaisons with key state and city or other local partners who may be active in the development and implementation of such concepts of operations and TTPs.
- m. Critically compare and evaluate the concepts of operations, TTPs, and methodologies, of EPA, with those developed by other federal, state, city and key local agencies or authorities. Contamination sampling and

assessment, mitigation, control, decontamination, restoration, including reoccupancy criteria, and waste disposal, should all be considered in an end to end sequence of essential operations.

n. Maintain capability to respond to Level A contingencies and all other levels as required.

o. Provide appropriate and EPA-compatible levels of to all personnel.

p. Assist in developing and conducting two annual EPA/contractor Level A training exercises, including classroom and field components designed to reinforce basic emergency response skills and to enhance inactions as part of an integrated team.

## 2. RISK ASSESSMENT AND RISK COMMUNICATIONS

a. Perform Risk Assessment in accordance with the following guidance: EPA's Ecological Risk Assessment for Superfund: Process for Designing and Conducting Ecological Risk Assessments and the most current version of the Risk Assessment Guidance (RAG) for Superfund, Volume 1 – Human Health Manual (Part D, Standardized Planning, Reporting, and Review of Superfund Risk Assessment).

b. Provide risk communication products.

## 3. RESPONSE ACTIVITIES

a. Conduct engineering studies related to decontamination operations and methods during emergency response activities and at hazardous waste sites.

b. Conduct site mapping and surveying, which may include: soil gas surveys, groundwater flow modeling, x-ray fluorescence surveys, surface geophysical surveys and down-hole camera studies.

c. Assist with the design and review of response plans related to terrorist incidents, natural and man-made CBRNE disasters and hazardous waste sites including procedures for containment and clean up, decontamination of equipment and buildings, personnel safety and monitoring, and final disposal.

d. Develop recommendations for contingencies involving high mass/high volume disposal requirements.

- e. Perform multi-media environmental sampling, indoor air investigation and forensic evidence collection in coordination with OSC and other Federal, State and local agencies.
- f. Sample and analyze for verification of decontamination methods.
- g. Compile and present data to NDT personnel or Environmental Clearance Committee.
- h. Conduct building engineering studies and evaluations, such as heating, ventilation and air conditioning (HVAC) systems, structural integrity, and materials.
- i. Assess health and safety site conditions regarding CBRNE during response and recovery operations.
- j. Perform emergency responses and maintain 24-hour, 7-days/week emergency response capabilities for mobilization of equipment and personnel within four hours of notification.
- k. Perform predictive modeling (meteorological and hydrographical) for long term fate, transport and migration impact.
- l. Survey meteorological conditions at appropriate points within and adjacent to affected areas.
- m. Provide CBRNE sample collection and analysis.
- n. Assess risk and environmental impact due to by-products generated during agent decontamination.
- o. Provide for necessary on-site and off-site analytical support.

## **D. SAFETY & QUALITY ASSURANCE**

### **1. HEALTH AND SAFETY**

Contractor personnel shall satisfy all OSHA requirements for field activity work during an NDT/contractor deployment. Services shall be provided in the following areas:

- a. Ensure that all activities performed meet NDT's health and safety requirements as outlined in applicable regulations and guidance documents such as 29 CFR 1910.120, EPA Standard Operating Safety



Guides, U.S. EPA 140 Series for Occupational Health and Safety, OSWER Policy, OSWER Integrated H&S Practices: For Field Personnel.

- b. Assist in preparing and implementing a health and safety program for contractor personnel involved in work at uncontrolled hazardous waste sites per 29 CFR 1910.120/126 and EPA Standard Operating Safety Guides and Occupational Health and Safety 1440 series.
- c. Provide all individual health, safety, and protective equipment for contractor personnel required to conduct field activities as outlined in Exhibit C.
- d. Maintain records as required by 29 CFT 1910.120 for contractor and sub-contractor personnel during an NDT deployment.
- e. Provide necessary background information, content review and recommendations for the development of Occupational Health and Safety Standard Operating Procedures (SOPs) in accordance with 29 CFR 1910.120 response activities and for site-specific health and safety plans, decontamination of equipment, personnel safety and monitoring.

## 2. QUALITY ASSURANCE/QUALITY CONTROL

- a. Develop and maintain quality assurance measures, including SOP's, for field activities consistent with Agency requirements as stated in EPA QA/R-5 and OSWER Directive #9360.4-01.
- b. Provide technical options and recommendations to support development of QA Technical Bulletins.
- c. Improve existing QA/QC methods for ensuring the progress of decontamination activities.
- d. Develop a QA/QC plan which will ensure satisfactory performance of all decontamination related operations and end points.

## **Exhibit A**

### **STATUTORY and REGULATORY FRAMEWORK SUPERFUND – GENERAL**

*This list is a representative sample and is not intended to be all inclusive.*

#### **I. Laws - Statutes**

- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) (1980), (42 U.S.C. s/s 9601 et. seq.), as amended
- Superfund Amendments and Reauthorization Act (SARA) (1986)
- Community Environmental Response Facilitation Act (CERFA) (1992)
- Asset Conservation, Lender Liability, and Deposit Insurance Protection Act of 1996 (1996)
- The Small Business Liability Relief and Brownfields Revitalization Act (2002)
- Clean Water Act (CWA) (1972), (33 U.S.C. s/s 1251 et. seq.) - particularly Section 311
- Oil Pollution Act (OPA) (1990)
- Resource Conservation and Recovery Act (RCRA), particularly Subtitle I
- Emergency Preparedness and Community Right-to-Know Act (EPCRA)
- Robert T. Stafford Natural Disaster Act (Stafford Act), (42 USC 5121, et. seq.), as amended
- Homeland Security Act, Public Law 107-296
- Clean Air Act, (42 USC 85), as amended

#### **III. Code of Federal Regulations (CFR)**

- National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 CFR Part 300

#### **IV. Federal Registers (significant notices)**

- 50 FR 47912; November 20, 1985 - NCP Final Rule (revisions added by CERCLA)
- 55 FR 8666; March 8, 1990 - NCP Final Rule (revisions added by SARA)
- 59 FR 47384; September 15, 1994 - NCP Final Rule (revisions added by OPA)

#### **V. Presidential Decision Directives (PDD)**

- PDD - 39, U.S. Policy on Counter terrorism, June 21, 1995
- PDD - 62, Protection Against Unconventional Threats to the Homeland and Americans Overseas, 22 May 1998
- PDD - 63, Critical Infrastructure Protection, 22 May 1998

#### **VI. Federal Response Plan (FRP), 9230.1-PL, Supersedes FEMA 229 (April 1999), January 2003**

## **VII. Policies and Guidance**

- CERCLA/Superfund Orientation Manual, EPA Document Number: 542-R-92-005, URL: <http://www.epa.gov/superfund/action/guidance/remedy/remedies/principles.htm>

## **VIII. Other References and Resources**

- Superfund Home Page, URL: <http://www.epa.gov/superfund>
- Superfund 20<sup>th</sup> Anniversary Report, URL: <http://www.epa.gov/superfund/action/20years/index.htm>

## ***DISCOVERY & NOTIFICATION***

### **I. Laws - Statutes**

- Section 103 of CERCLA as amended
- Section 304 of the Emergency Planning and Community Right-to-Know Act (EPCRA) (1986)
- Section 311 of CWA, as amended by the OPA

### **IX. CFR**

- 40 CFR Part 302 - Designation, Reportable Quantities, and Notification
- 40 CFR Part 355 - Emergency Planning and Notification
- 40 CFR Part 110 - Discharge of Oil
- 40 CFR 300.405 - Discovery and Notification (Hazardous Substances)
- 40 CFR 300.300 - Phase 1 - Discovery or notification (Oil)

### **X. Federal Registers (significant notices)**

- 46 FR 22144 - April 15, 1981 - Hazardous Substances Notification of Treatment, Storage, and Disposal Facilities
- 50 FR 13456 - April 4, 1985 - Release Notification Requirements for CERCLA
- 52 FR 13378 - April 22, 1987 - Release Notification Requirements for EPCRA
- 55 FR 45039 - August 25, 1993 - Oil Discharge Regulations
- 61 FR 7421 - February 28, 1996 - Oil discharge Regulations

### **XI. Other Resources**

- Emergency Response Program Reporting Triggers URL: <http://www.epa.gov/superfund/programs/er/triggers/index.htm>.

## ***REMOVAL PROCESS***

### **I. Laws - Statutes**

- Sections 101 and 104 of CERCLA (definition of and authority for removal response)
- Section 113 of CERCLA (documentation requirements)
- Section 311 of the CWA, as amended by the OPA

## II. CFR

- 40 CFR 300.410 - Removal Site Evaluation (Hazardous Substances)
- 40 CFR 300.415 - Removal Action (Hazardous Substances)
- 40 CFR Part 300 Subpart D - Operational Response Phases for Oil Removal

## III. Federal Registers (significant notices)

- 55 FR 8666: March 8, 1990 - NCP Final Rule (revisions added by SARA)
- 59 FR 47384: September 15, 1994 - NCP Final Rule (revisions added by OPA)

## **XII.** Policies and Guidance

- Superfund Removal Procedures OSWER, Directive Number: 9360.0-03B
- Guidance on Conducting Non-Time Critical Removal Actions Under CERCLA, Document Number: EPA 540-R-93-057, OSWER Directive Number: 9360.0-32
- Guide to Developing Action Memorandums, OSWER Directive Number: 9360.3-01FS
- Model Program for Removal Site File Management, OSWER Directive Number: 9360.2-01
- Superfund Fact Sheet: The Removal Program, OSWER Directive Number: 9320.0-05FSg
- Consideration of ARARs during Removal Actions, OSWER Directive Number: 9360.3-02 FS

## IV. Other Resources

- Superfund Office of Emergency and Remedial Response,  
<http://www.epa.gov/superfund/partners/oerr/index.htm>

## **COMMUNITY INVOLVEMENT**

### I. Laws - Statutes

- Section 113 of CERCLA

### II. CFR

- 40 CFR 300.415(n) - Community Relations in Removal Actions
- 40 CFR 300.430(c) - Community Relations in Remedial Actions
- 40 CFR 300.430(e)(2)(iv) - Technical Assistance for Communities
- 40CFR 300.800 - Administrative Record

### III. Federal Registers (significant notices)

- 55 FR 8666; March 8, 1990 - NCP Final Rule (revisions added by SARA)

### IV. Policies and Guidance

- Superfund Community Involvement Handbook, Document Number: 540-K-01-003
- Superfund Removal Procedures: Public Participation Guidance for On-Scene Coordinators: Community Relations and the AR, OSWER Directive Number 9360.3-05
- Risk Assessment Guidance for Superfund: Volume 1, Human Health Evaluation Manual, Part A: Community involvement in Superfund Risk Assessments, Document Number: EPA 540-R-98-042
- Superfund Technical Assistance Grants, OSWER Directive Number: 9230.1-05FSA

### V. Other Resources

- Superfund Community Involvement Home Page URL:  
<http://www.epa.gov/superfund/action/community/index.htm>

### ***Human Health/Ecological Risk Assessment***

For Baseline Human Health Risk Assessments:

*Risk Assessment Guidance for Superfund (RAGS), Volume I: Human Health Evaluation Manual: Part A, Baseline Risk Assessment.* Interim Final. December 1989. EPA 540/1-89/002. NTIS PB90-155581.  
*Supplement to Part A: Community Involvement in Superfund Risk Assessments.* March, 1999. EPA 540-R-98-042. OSWER Directive 9285.7-01E-P. NTIS PB99-963303.  
*Part B, Development of Risk-Based Preliminary Remediation Goals.* December, 1991. EPA 540/R-92/003. OSWER Directive 9285.7-01B. NTIS PB92-963333.  
*Part C, Risk Evaluation of Remedial Alternatives.* December 1991. EPA/540/R-92/004. OSWER Directive 9285.7-01C. NTIS PB92-963334.  
*Part D, Standardized Planning, Reporting and Review of Superfund Risk Assessments.* January 1998. EPA 540-R-97-033. OSWER Directive 9285.7-01D. NTIS PB97-963305.

*Risk Assessment Guidance for Superfund, Volume III - Part A, Process for Conducting Probabilistic Risk Assessment.* December, 2001. EPA 540-R-02-002. OSWER Directive 9285.7-45. NTIS PB2002 963302.

*Supplemental Guidance to RAGS: Calculating the Concentration Term.* June 22, 1992. OSWER Directive 9285.7-08I.

*Standard Default Exposure Factors. Interim Final.* OSWER Directive 9285.6-03. March

25, 1991.

*Final Guidance Data Useability in Risk Assessment (Part A)*. April 1992. OSWER Directive 9285.7-09A. NTIS PB92-963356.

*Guidance for Data Useability in Risk Assessment (Part B)*. May 1992. OSWER Directive 9285.7-09B. NTIS PB92-963362.

*Dermal Exposure Assessment: Principles and Applications*. January 1992. EPA 600/8-91/011B.

*Exposure Factors Handbook, Volume 1*. 1997. EPA/600/P-95/002Fa.

*Exposure Factors Handbook, Volume 2*. 1997. EPA/600/P-95/002Fb.

*Exposure Factors Handbook, Volume 3*. 1997. EPA/600/P-95/002Fc.

*Air/Superfund National Technical Guidance Study Series, Volumes I, II, III, and IV*. 1989. EPA 450/1-89-001,002,003,004.

*Final Soil Screening Guidance, May 17, 1996. Soil Screening Guidance User's Guide*. Office of Solid Waste and Emergency Response. EPA/540/R-96/018.

*Soil Screening Guidance: Technical Background Document*. EPA 540/R-94/126.

*EPA Risk Characterization Program. Memorandum from Administrator Carol Browner*. Office of the Administrator, Washington, DC. March 21, 1995.

*Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons*. Office of Research and Development, Washington, DC. EPA/600/R-93/C89.

*PCBs: Cancer Dose-Response Assessment and Application to Environmental Mixtures*. Office of Research and Development, Washington, DC. EPA/600/P-96/001A.

*Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities*. July 14, 1994. OSWER Directive 9355.4-12.

*Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites*. December, 2002. OSWER Directive 9285.6-10.

For Baseline Ecological Risk Assessments:

*Guidelines for Ecological Risk Assessment, Final*. April 1998. EPA/630/R-95-002F.

*Ecological Risk Assessment Guidance for Superfund, Process for Designing and*

*Conducting Ecological Risk Assessments*. June 1997. EPA/540-R-97-006.  
OSWER Directive 9285.7-006. NTIS PB97-963211.

*Ecological Risk Assessment / Management Principles*. October, 1999. OSWER  
Directive 9285.7-28P.

*Ecological Assessment of Hazardous Waste Sites: A Field and Laboratory Reference  
Document*. EPA 600/3-89/013. March 1989.

*EcoUpdate: Intermittent Bulletins, Supplemental Guidance to RAGS, Vol. II*. EPA  
Publications 9345.0-051.

## **Exhibit B**

### **ACRONYMS**

ARARs Applicable or Relevant and Appropriate Requirements  
CAA Clean Air Act  
CERCLA Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CERCLIS Comprehensive, Environmental Response, Compensation & Liability System  
CFR Code of Federal Regulations  
CLP Contract Laboratory Program  
CO Contracting Officer  
COR Contracting Officer's Representative  
CT Counter Terrorism  
CWA Clean Water Act  
EOC Emergency Operation Center  
EPA Environmental Protection Agency  
ERNS Emergency Response Notification System  
GIS Geographical Information System  
ICS Incident Command System  
NBCR Nuclear, Biological, Chemical, Radiological  
NCP National Oil and Hazardous Substances Pollution Contingency Plan  
OPA Oil Pollution Act  
OPP Oil Pollution Prevention  
OSC On-Scene Coordinator  
OSHA Office of Safety and Health Administration  
OSWER Office of Solid Waste and Emergency Response  
PPE Personal Protection Equipment  
QA Quality Assurance  
QAPP Quality Assurance Project Plan  
QC Quality Control  
RCRA Resource Conservation and Recovery Act  
SARA Superfund Amendments and Re-authorization Act  
SPCC Spill Prevention Controls and Countermeasures  
WMD Weapons of Mass Destruction



## Exhibit C

### PERSONAL PROTECTIVE EQUIPMENT TYPES BY LEVELS

Personal Protection Equipment requirements are determined by the *NIOSH/OSHA USCG/and the EPA Occupational-Safety and Health Guidance Manual for Hazardous Waste Site Activities*, issued in October 1985. Additional guidance is given in EPA Standard Operating Safety Guides, Publication 9285.1-03, dated June 1992. These guidance documents, or their updated versions, will be the final determination for personal protection guidance in this contract. All equipment associated with a particular level of protection, or modified level of protection, is to be supplied by the contractor for each site. Details of the appropriate level of protection will be covered in the HASP.

In an explosive atmosphere, intrinsically safe equipment is a requirement. Optional equipment must be available, depending upon site exigencies.

#### 1. LEVEL A<sup>1, 2</sup>

Pressure-demand, 4500 psi self contained  
breathing apparatus (MSHA/NIOSH approved)  
Fully encapsulating chemical-resistant suit  
Coveralls\*  
Underwear, long cotton underwear\*  
Gloves (outer), chemical-resistant  
Gloves (inner), chemical-resistant  
Boots, chemical-resistant, steel toe and shank.  
(Depending on suit boot, worn over or  
under suit boot)  
Hard hat\* (under suit)  
2-way radio communications (intrinsically safe)  
Disposable protective suit,  
disposable gloves, and  
disposable boots\* (Worn over fully  
encapsulating suit)

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<sup>1</sup>  
Must also meet the NFPA Standard 1991 as  
amended in 1994 (and as subsequently  
updated).

<sup>2</sup>  
Note: Offerors shall maintain an adequate supply  
of Level A protective gear for both industrial  
chemical and chemical and biological warfare  
agent responses.

## 2. LEVEL B

Pressure-demand, self-contained breathing apparatus (MSHA/NIOSH approved)  
Chemical-resistant clothing (overalls and long sleeve jacket; coveralls; hooded, one or two-piece chemical-splash suit; disposable chemical-resistant coveralls)  
Coveralls\*  
Gloves (outer) chemical-resistant  
Gloves (inner) chemical-resistant  
Boots (outer) chemical-resistant, steel toe and shank  
Boots (outer) chemical-resistant (disposable)\*  
Hard hat (face shield\*)  
2-way radio communication (intrinsically safe)

## 3. LEVEL C

Full-face, air purifying respirator (MSHA/NIOSH) approved)  
Chemical-resistant clothing (one piece coverall; hooded, two piece chemical splash suit; chemical resistant hood and apron; disposable chemical resistant coveralls)  
Coveralls\*  
Gloves (outer) chemical-resistant  
Gloves (inner) chemical-resistant  
Boots, steel toe and shank, chemical-resistant  
Boots (outer) chemical-resistant (disposable)\*  
Hard hat (face shield\*)  
Escape mask\*  
2-way radio communications (intrinsically safe)